

GAATTCCGGGTGGTAGGTCGGCAGGGTAGGACAGGCCTAAGAGAGAGGCCGGACAGACCTCC  
TTTGGAAAGCAGCCACTTCTGGTCCCCATCCCTGGAGCGATCGAGCGCAGGATCTGCTGTCCCCT  
GGGACAGCAGATCTCTCTCCCAGTGCACAGCTCTCCTGCCTGTTTCCCTGCTCCAGTG  
CTCCAGGTGGCCCAACCAGGCCAGGCACCCAGGACCAGCCCCTGTGGACACTTTGGAGCAGT  
ACTGCCACAGGACCACAATTGGGAATTTCAGGTCCCTACACCTACTGCAACACGACCTTGGA  
CCAGATCGGGACCTGCTGGCCACAGAGCGCACCCGGAGCCCTAGTAGAGAGAGACCGTGCCCCGAG  
TACTTCAATGGCATCAAGTACAACACGACCCGGAATGCCTACAGAGAGTGCGCTGGAGAACGGGA  
CCTGGGCCTCAAGGGTCAACTACTCACACTCGGAACCCATTGGATGACAAGCAGAGAAAGTA  
TGACCTGCATTACCGAATCGCCCTCATTGTCAACTACCTGGGTCACTGTGTTCCGTGGTGGCC  
CTGGTGGCCGCTTCCTGCTTTCTAGTGCTGGAGTATCGCTGCCTGAGGAATGTGATCC  
ACTGGAACCTCATCACCACCTCATTCTGAGAACATCGCGTGGTCCCTGCTGCAACTCATCGA  
CCACGAAGTGCACGAGGGCAATGAGGTCTGGTGCCTGCATCACCACCATCTCAACTATTT  
GTGGTCACCAACTCTTCTGGATGTTGTGGAGGGCTGCTACCTGCACACGGCCATTGTATGA  
CGTACTCCACAGAGCACCTGCGCAAGTGGCTTCCTCTCATGGATGGCATTCCCTGCC  
TATCATCATCGCCTGGGAGTTGGCAAACCTACTATGAGAACATGAGCAGTGCTGGTTGGCAAG  
GAAGCTGGTGAATTGGTGGACTACATCTACCGAGGGCCCGTCATGCTTGCTGTTGATCAATT  
TTGTATTTCTGTTAACATCGTCAGGATCCTGATGACGAAGTTACGAGCATCCACCGTCCGA  
GACAATCCAATACAGGAAGGCAGTGAAGGCCACGCTGGTCCTCCCTCCCTGTTGGCATTCC  
TACATGCTCTTCTTGTCAATCCTGGCGAGGACGACCTGTCAGGATTTCTACTGCTTCTCAATGGAGA  
ACTCTTCCTGCAGTCCTCAGGGTTCTTGCTGCTGGTTCTACTGCTTCTCAATGGAGA  
GGTCGCGCGGCCCTGAGAAAGCGGTGGCACTCGGGCAGGACCACGCCCTCCGGTGCT  
GTGCGCCGGCCATGTCCATCCCTACGTCGCCACCCAGGATCAGCTCCACAGCATCAAGCAGA  
CAGCTGCTGTGTGACCCCTCTGTCACCGTCTGCCCGCAGTCCACCACTGAGGCAGCTCTCCAT  
CCTTACAGCCTCCCTGGTCCTGCTACCCACAGGTACAAGGTACAGGAGAA  
GGGAGGAGAACGAACTCCC (SEQ ID NO:1)

**FIGURE 1**

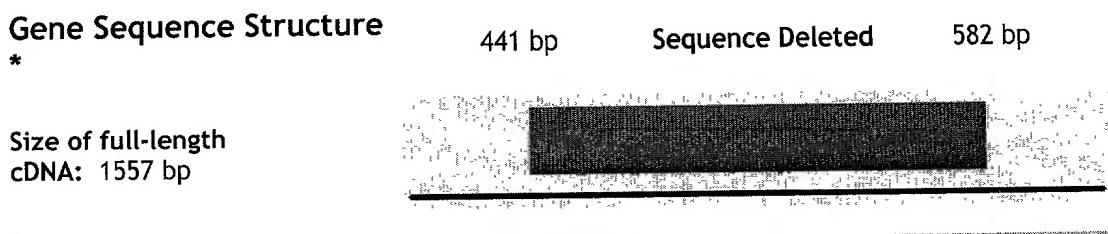
T090020 - 0660

underlined = deleted in targeting construct

[ ] = sequence flanking Neo insert in targeting construct

GAATTCCGGGTGGTAGGTGGCAGGGTAGGACAGGCCTAAGAGAGAGGCCGGACAGAC  
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TGTCCCATGGGACAGCAGATCTCTTCCCAGTGCACAGCTCTCCTCTGCCTGTTTCC  
CTGCTCCAGTGCTCAGGTGGCCAACCAGGCCAGGCCACAGGCCAGGACCAGGCCCTGTGG  
ACACTTTGGAGCAGTACTGCCACAGGACCAATTGGAATTTCAGGTCCCTACACC  
TACTGCAACACGACCTGGACCAGATGGGACCTGCTGGCCACAGAGCGCACCCGGAGCC  
CTAGTAGAGAGACCGTGGCCCGAGTACTTCATGGCATCAAGTACAACACGACCC [GGAA  
TGCCTACAGAGAGTGCTGGA] GAACGGGACCTGGGCCCTCAAGGTCAACTACTCACACT  
GCGAACCCATTTGGATGACAAGCAGAGAAAGTATGACCTGCATTACCGAATCGCCCTCA  
TTGTCAACTACCTGGGTCACTGTGTTCCGTGGTGGCCCTGGTG [GCCGCTTCCTGCTT  
TTCCTAGTGCCTGCG] GACTATCCGCTGCCTGAGGAATGTGATCCACTGGAACCTCATCAC  
CACCTTCATCTGAGAACATCGCGTGGTCCCTGCTGCAACTCATCGACCAAGTGCA  
CGAGGGCAATGAGGTCGGTGCCTGCATCACCACCATCTCAACTATTGTGGTCAC  
CAACTTCTCTGGATGTTGTGGAGGGCTGCTACCTGCACACGGCATTGTCATGACGTA  
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TATCATCATCGCCTGGCAGTTGCAAACACTACTATGAGAATGAGCAGTGCTGGTTGG  
CAAGGAAGCTGGTATTGGTGGACTACATCTACCGAGGCCCGTCATGCTGTGCTGTT  
GATCAATTGTATTCTGTTAACATCGTCAGGATCCTGATGACGAAGTTACGAGCATC  
CACCACGTCGAGACAATCCAATACAGGAAGGCAGTGAAGGCCACGCTGGCCTCC  
CCTGTTGGCATCACCTACATGCTCTTGTCAACCTGGCAGGACGACCTGTCCCA  
GATTGTGTTCATCTACTCAACTCTTCCTGCAGTCCTCCAGGGTTCTTGTCCTGGT  
TTTCTACTGCTCTTCATGGAGAGGTGCGCGCGGCCCTGAGAAAGCGGTGGCACTCGGG  
GCAGGACCACCACGCCCTCCGGGTGCCTGCGCGGCCATGTCATCCCTACGTCGCC  
CACCAGGATCAGTCCACAGCATAAGCAGACAGCTGCTGTGACCCCTGTCACCGT  
CTGCCCGCAGTCCACCACTGAGGCAGCTCTCCATCTTACAGCCTCCCTGGGTCC  
TCCTTGCTACCCCTGACCCACAGGTACAAGGTACAGGAGAAGGGAGGAGAACACTCC  
C

**FIGURE 2A**



### Targeting Vector\* (genomic sequence)

Construct Number: 3050

**Arm Length:**

5': 3.1 kb

3': 2.5 kb

Targeting Vector  
- Endogenous Locus

\* Not drawn to scale

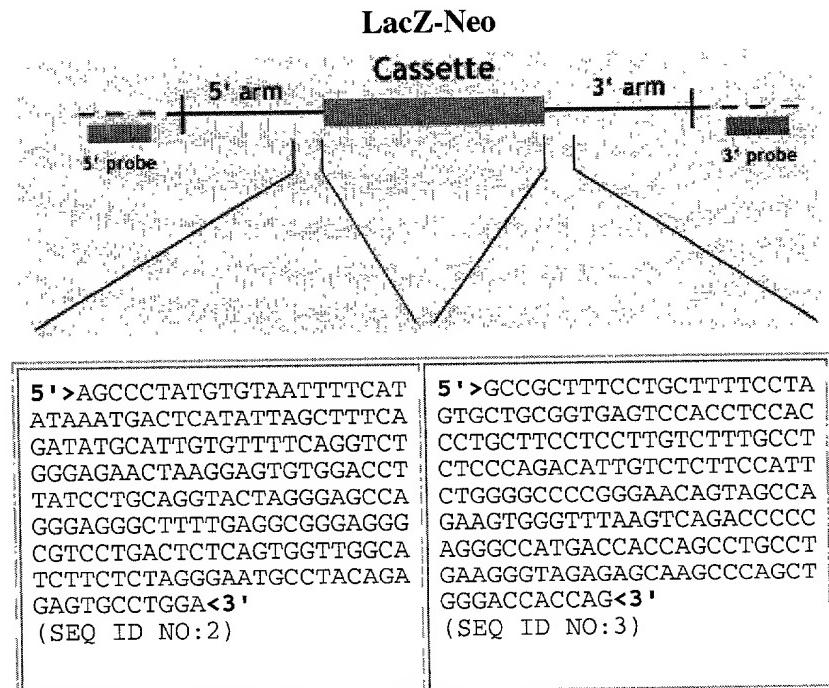


FIGURE 2B